

DATE:31-12-2020

GYAN DEVI SALWAN PUBLIC SCHOOL
WINTER HOLIDAYS HOMEWORK
CLASS - XI

SUBJECT	
PHYSICS	Prepare a research based ppt (8-10 slides) on India and Japan Moon Mission .
CHEMISTRY	Prepare a research based report 4-5 pages comparing India's R&D with Japan Research on development of vaccines against coronavirus. (The report can include recent researches in the field of medicine)
BIOLOGY	Comparing India's R&D with Japan Research on development of diagnostic tests for the novel coronavirus disease (COVID-19) (This research will aim to develop the basic technology for use in rapid diagnostic test kits for SARS-CoV-19) Submit this in the form of project report on Google classroom
MATHEMATICS	Taking eight years from 2011 - 2018, tabulate the percentage of G.D.P. spent on R&D by Japan and India and find the mean deviation from mean and standard deviation for both the countries. Also depict it by pie chart. Submit the project report on Google classroom
COMPUTER SC.	Prepare a research based infographics on India and Japan cybersecurity agreement that promotes cooperation in security and resilience in the areas of Critical Information Infrastructure, 5G, Internet of Things (IoT), Artificial Intelligence (AI).
PHYSICAL EDUCATION	Prepare a ppt correlating chapter-3(physical fitness, wellness and Lifestyle) with the sports popularly played in Sikkim (football, archery, adventure sports and other local games) under CBSE guidelines for art integrated learning project on Sikkim
ENGLISH	<ol style="list-style-type: none">1. Based on the chapter The Ailing Planet, research on the climate of Sikkim and compare it with the climate of Delhi. Make a PPT showing the comparative study of the climate, population and pollution levels of Delhi and Sikkim.2. Express your thoughts through creative writing everyday. You may write a poem, story, article or diary entry.

POL. SC.	Prepare a research document on Israel as a fastest growing political power in the contemporary world. Also focus on the investment made by Israel in the field of Human resource, science technology and education .Draw the changing political relationship with India in the last two decades.
BUSINESS STUDIES	Honda , Suzuki, Yamaha, Kawasaki, Isuzu, Toyota etc are Japanese automobile companies having a big market share in India, Make a comparative study on the research and development of any one of the above mentioned companies with respect to any one Indian company . Also compare their profits earned during quarter 1 , quarter 2 and quarter 3 for the year 2020 .
ACCOUNTANCY	Select any one electronics company of India and Japan each and collect the following data : 1. Percentage of spending on Research and Development as compared to the revenue earned for the last 5 years and present it in a Tabular form. 2. Areas of spending - technology, design, or any other. 3. Effect on profits earned by both the companies due to research and development in tabular form. Submit the project report on Google classroom.
HISTORY	Prepare a research based ppt (8-10 slides) comparing India's R&D(research and development) with Japan showcasing historical reasons for its present growth in R&D. Compare using these parameters- political setup, demography, availability of natural resources along with human resource.
ECONOMICS	Make a project report on how much percentage of GDP in Japan is spent on Research and Development in 2020 and in which sector . What percentage of GDP is spent on the development of the education sector in Japan. Also elaborate on improvement in the education sector amidst Covid-19 pandemic. Make a comparison of the same with Indian economy.